

## HM74 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP04137
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human GPR109. AA range:285-334
<b>Mol wt</b>	44496
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IF, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	HM74 Antibody
<b>Synonyms</b>	HCAR3; GPR109B; HCA3; HM74B; NIACR2; Hydroxycarboxylic acid receptor 3; G-protein coupled receptor 109B; G-protein coupled receptor HM74; G-protein coupled receptor HM74B; Niacin receptor 2; Nicotinic

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

HM74, also known as PUMAG or Puma-g, is a member of the G protein coupled receptor (GPCR) superfamily. In humans, HM74 is encoded by two different genes (GPR109A and GPR109B) that express two distinct proteins, namely HM74A and HM74B (also known as simply HM74), which are 96% homologous. In mice and rats, only one gene (designated Gpr109a) encodes the HM74 protein. HM74B is a Gi protein-coupled receptor that mediates the metabolic effects of nicotinic acid. Localizing to the cell membrane, HM74B is highly expressed in adipocytes, immune cells and spleen and, like all members of the GPCR superfamily, contains seven transmembrane domains. HM74B lacks the characteristic N-linked glycosylation sites that are present in other GPCR family members and also shows a more diverged amino acid sequence homology from most family members, implying different ligand specificity.

### Recommended Dilution

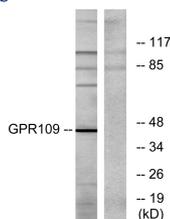
WB: 1: 500 - 1: 2000

IF: 1: 200 - 1: 1000

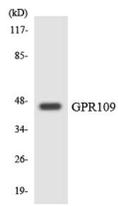
ELISA: 1: 10000

Not yet tested in other applications.

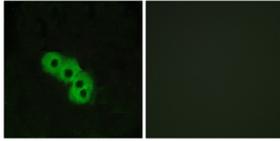
### Images



Western blot analysis of lysates from RAW264.7 cells, using GPR109 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using GPR109 antibody.



Immunofluorescence analysis of MCF7 cells, using GPR109 Antibody. The picture on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year

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